

ABSTRACT

A software debugging environment uses multiple abstract views to provide the flexibility required to perform effective debugging on an executing software program using data structures. Developers can select between one or more views to see different aspects of the software being examined. Each view can have a filter with specific properties determining which quantities are displayed, the format they are displayed in and any editing capability. In some embodiments, the selection of views, filters defining the views, and the editing properties for the contents shown in the views may be set interactively. In some cases, this interaction occurs through the interface of an Integrated Development Environment (IDE) containing the debugger. In other cases, the properties of views in the debugging environment are determined by definitions supplied in configuration files. Special facilities are provided for the debugging of JSP programs. This description is not intended to be a complete description of, or limit the scope of, the invention. Other features, aspects, and objects of the invention can be obtained from a review of the specification, the figures, and the claims.